



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D205-634-041
Job Sheet 175282



Part No: D205-634-041

Job Qty: 1 ea

Part Name: Replacement Skidtube with Standard Wearplates Fits LH or RH



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 4/2/18

Job Tracking No:

Due Date: 4/24/18

Created By: Michelle Gagnon-Donovan

Type: SOLD

Description:

Note: DWG D2580 REV H SHEETS 1,2,3,8 IPP Rev:N 02.08.28 FP was QC5 in Step 27; Added QC5 to Step 30 KJ IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD IPP Rev. O 06.02.28 Added paperwork EC IPP Rev:P 07-07-09 SS Wearplates & Gaskets JLM IPP Rev:Q 10.12.01 as per chg003 DD ver:EC IPP REV:R 12.01.23 AS PER ECN11-684 VERF:EC IPP REV:S 17.12.08 REMOVE GASKET AS PER INTUITIVE INFO DD VERF:JFS

Ship Via:

Bill of Materials



Container No: S065849



Part: D205-634-041

Job No: 175282

Serial No/Batch: S065849

Revision: H

Inspector:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
Tel: 1 613 632-5200
Email: sales@dartaero.com
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Date: 04/26/18

AM Dart.Gagnon.Michelle

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea	4/23/18	4/23/18	0.00	0.00	Start Up Skid tubes		MB
110	CNC Bend Skid tubes	1 pcs	4/23/18	4/23/18	0.00	0.65	CNC Bend Skid tube		SJ MB
120	Skid tubes	1 pcs	4/23/18	4/23/18	0.00	2.89	Skid tubes-2		MB
130	QC	1 pcs	4/23/18	4/23/18	0.00	0.00	QC5		BE
140	Skid tubes	1 pcs	4/23/18	4/23/18	0.00	2.89	Skid tubes-2		BE MB
150	QC	1 pcs	4/23/18	4/23/18	0.00	0.00	QC10		EB
160	QC	1 pcs	4/23/18	4/23/18	0.00	0.00	QC5		EB
170	HandFinish	1 pcs	4/23/18	4/23/18	0.00	1.31	HandFinish2		BR / 18-05-03
180	Powdercoat	1 pcs	4/23/18	4/23/18	0.00	0.34	Powdercoat1		BE 18-05-03
190	QC	1 pcs	4/23/18	4/23/18	0.00	0.00	QC3		18-5-03
200	HandFinish	1 pcs	4/24/18	4/24/18	0.00	1.31	HandFinish4		BE 18-05-03
210	QC	1 pcs	4/24/18	4/24/18	0.00	0.00	QC5		38
215	DC	1 pcs	4/24/18	4/24/18	0.00	0.00	DC		9-89
220	Packaging	1 pcs	4/24/18	4/24/18	0.00	0.00	Packaging3-1		
230	QC21-FG	1 Ea	4/24/18	4/24/18	0.00	0.00	QC21		DAS MAY 07 2018

Part Op 110 - 1-Bend as per program D2580.C on CNC Bender and Folio 16 2-Cut tubes as per Dwg. D2580 3- scribe batch# in Descriptions: aft end of tube

120 - 1- Deburr ends and remove bending marks 2- Prepare tube for welding as per QSI 004

140 - 1-Weld step D2576 as per Dwg. D2580 and QSI 004 2-Grind welds on step as per Dwg D2580 3- Insert D4202-1 spacer, swage as per QSI002 and trim/ grind flush per QSI002 and dwg. Hold x-bolt with DT9701 Use tube expander 1/2 x17G to start expansion and finish with 1/2 x 18G to achieve dwg dimension. 4-Drill holes for wearplates using DT 8217 & DT8937, 7.40" from most fwd saddle holes (ref only) Open holes to 19/64", adjust stopper not to hit web. Deburr 6-Drill pilot holes for aft cap using DT 8215 Open holes to 0.208". Deburr 7-Drill pilot holes for Tow ring using DT8091, open to .640" and Deburr

170 - Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch and leave fwd cap out of solution.

180 - START TIME: 11:50 OVEN TEMPERATURE: 320° FINISH TIME: 12:20

200 - 1-Install inserts & wearplates as per Dwg. D2580. Use a drop of Sikaflex on insert holes before installing wearplates A/R Sikaflex-291 18/19 Sikaflex expire date: 18/19 2-Coat D2594-3 O' rings with Petroleum Jelly and install on D2594-1 plugs as per Dwg D2580 3-Inspect for foreign object per QSI 024 4-Install 2855 Aft Cap as per Dwg D2580 and seal Fwd Step & Aft Cap with Sikaflex. Clean excess adhesive A/R Sikaflex-291 18/19 Sikaflex expire date: 18/19

5-Wing Walk as per Dwg D2580 and QSI 005 4.4 Batch: 113876

210 - Inspect Aft Cap, Fwd Step and Wing Walk of work to Current Step Inspect for Foreign objects per QSI 024

215 - Photocopy D205-634 bluefile & type labels per PPP D205-634-041 CHG006

220 - Identify and pack for shipping as per PPPD205-634-041 Location: _____ PPP Rev: _____

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D2580-1	205 Bent Tube	1 Ea (1 ea)	90-Start up Operation	5061525
D2576-3	Step (Machining Detail)	1 Ea (1 ea)	140-Skid tubes	5136033
D4202-1	Spacer	20 Ea (20 ea)	140-Skid tubes	5039216 (19) 5054571 (18)
ALS7-1032-130	Rivnut	50 Ea (50 ea)	200-HandFinish	5045668
AN3-5A	Bolt	2 Ea (2 ea)	200-HandFinish	5041106-1
AN3C4A	Bolt	50 Ea (50 ea)	200-HandFinish	5041114
D2594-1	Plug	16 Ea (16 ea)	200-HandFinish	5054786
D2594-3	O-Ring	16 Ea (16 ea)	200-HandFinish	5049975
D2855	Cap	1 Ea (1 ea)	200-HandFinish	F147805
D3564-11	Wearplate Aft	1 Ea (1 ea)	200-HandFinish	5054594
D3564-13	Wearpad Fwd	1 Ea (1 ea)	200-HandFinish	5054456
D3564-5	Wearplate Center	1 Ea (1 ea)	200-HandFinish	5054580
D3564-9	Wearplate Fwd	1 Ea (1 ea)	200-HandFinish	5054552
NAS1149C0332R	Washer	50 Ea (50 ea)	200-HandFinish	5044236
NAS1149D0332J	Washer	2 Ea (2 ea)	200-HandFinish	5020606

002208 003028

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	D2580-1	1	4	0
	D2576-3	1	19	0
140-Skidtubes	D4202-1	20	948	0
200-HandFinish	ALS7-1032-130	50	3,000	0
	AN3-5A	2	422	0
	AN3C4A	50	2,155	0
	D2594-1	16	524	0
	D2594-3	16	1,093	0
	D2855	1	39	0
	D3564-11	1	39	0
	D3564-13	1	33	0
	D3564-5	1	30	0
	D3564-9	1	36	0
	NAS1149C0332R	50	7,158	0
	NAS1149D0332J	2	3,368	0
Part Specifications				
Specifications could not be found.				

Plex 4/2/18 10:48 AM Dart.Gagnon.Michelle

ITEM	QTY -041	QTY -045	QTY -047	QTY -049	PART NUMBER	DESCRIPTION
1	X				D2580-041	SKIDTUBE ASSEMBLY
2		X			D2580-045	SKIDTUBE ASSEMBLY
3			X		D2580-047	SKIDTUBE ASSEMBLY
4				X	D2580-049	SKIDTUBE ASSEMBLY
20	1	1	1	1	D2500-1-190	EXTRUSION
21			16	16	D2570	BUSHING
22	1	1	1	1	D2578-3	STEP
23		4			D2579	SPACER
24	16	16	8	8	D2594-1	PLUG
25	16	16	8	8	D2594-3	O-RING
26	1	1	1	1	D2596	206 WEB
27	1	1	1	1	D2555	AFT CAP
28	1	1			D3584-5	WEARSHOE
29	1	1			D3584-8	WEARSHOE
30	1	1			D3584-11	WEARSHOE
31	1	1			D3584-13	WEARSHOE
32	20	20	24	24	D4202-1	SPACER
33			1		D4405-041	WEARPLATE ASSEMBLY
34			1		D4405-043	WEARPLATE ASSEMBLY
35				1	D5061-1	FWD WEARPLATE
36				1	D5061-3	AFT WEARPLATE
60	60	60			ALS7-1032-130 or AKS7-1032-130 or AKS4-1032-130 or AELS-1032-130	INSERT
61	60	60			AN3C4A	BOLT
62	2	2	2	2	AN3-5A	BOLT
63			8	8	AN4-45A	BOLT
64	60	60			NAS1149C0332R	WASHER (AN980C10L)
65	2	2	2	2	NAS1148D0332J	WASHER (AN980JD10L)
66			8	8	MS21042-4	NUT (OR MS21042L4)

GENERAL NOTES:

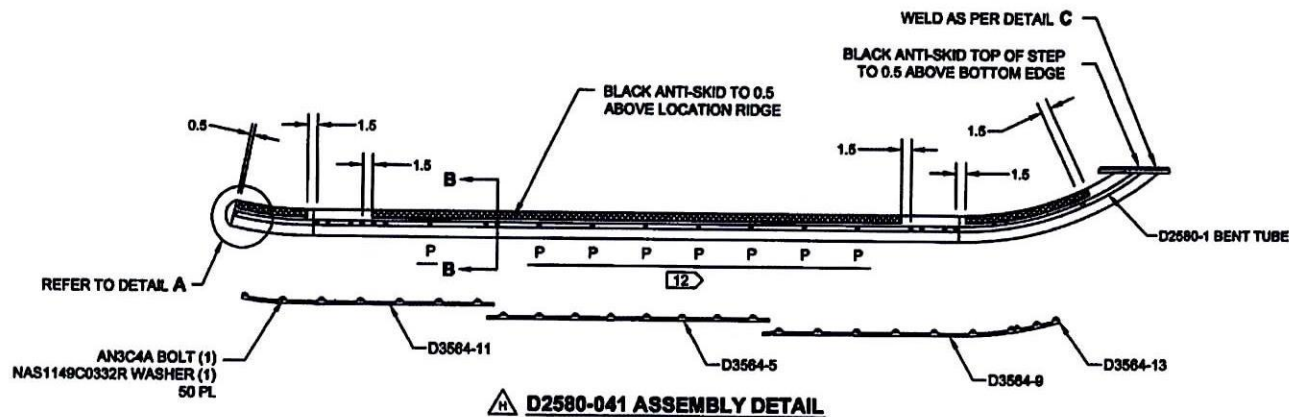
- MATERIAL: N/A
- FINISH: CHEMICAL CONVERSION PER DART QSI 005 4.1 PRIOR TO INSERTING D2596 WEB
POWDER COAT (-041/-047/-049) GLOSS WHITE (REF 4.3.5.1) PER DART QSI 005 4.3
POWDER COAT (-045) GREEN SANDTEX (REF 4.3.5.8) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT AS INDICATED PER DART QSI 005 4.4.
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: NONE
- WEIGHT: D2580-041 = 33.7 lbs
D2580-045 = 33.7 lbs
D2580-047 = 45.1 lbs
D2580-049 = 32.0 lbs
- WELDING PER DART QSI 004.
- INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- USE DART DRILL TEMPLATE DT8217 & DT8637 ONLY FOR D2580-041/-045 TO LOCATE AND DRILL 20.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTIONS B-B AND F-F (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND NAS1149C0332R WASHERS WITH SIKAFLEX-241-291.
- INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES FOR D2580-041/-045 AND 8 PLACES FOR D2580-047/-049)
- IT IS ACCEPTABLE TO GRIND A RELIEF IN THE D2555 AFT CAP TO PREVENT INTERFERENCE WITH THE SPACER AT THIS LOCATION

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SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 175282
APR 02 2018

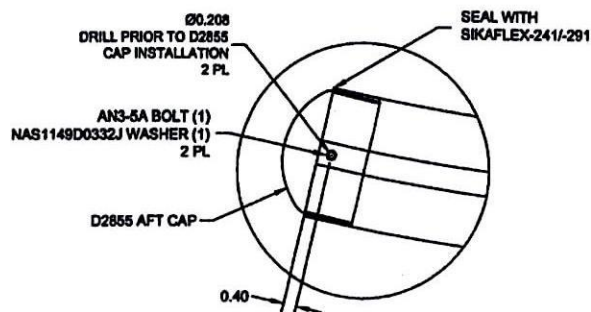
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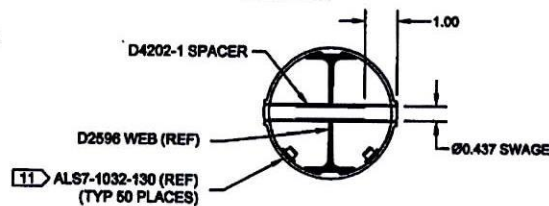
H	SHEET : PL DELETE D3586-1/-5/-13 GASKETS, WEIGHTS UPDATED ACCORDINGLY. SHEETS 2 & 4 PICTORIAL UPDATE FOR REMOVAL OF GASKETS	SAD	17.06.09
G	ADDED -048, -047 WEIGHT UPDATED PER DSI 9996	AJS	14.04.09
F	INCORPORATE DEO D2580-E-1 PER PAR12-216	DC	13.08.20
E	ADD D2580-047 (ZN C4-7) AND D2580-7 (ZN B3-8); INCLUDED DEO D2580-D-1; REFORMATTED DRAWING TO CURRENT STANDARDS; DT8217 & DT8637 WAS TD2577-205 (ZN C4-1)	RF	11.06.21
D	CHANGE TO 33 WEARPLATES AND GASKETS, INCLUDE DEO 9124/ 9183	PH	07.04.06
C	REDRAWN, INCLUDED DEO 9094/ 9097	CP	06.08.26
B	AS MANUFACTURED	DS	06.12.02
A	NEW ISSUE	DS	06.06.16
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
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DE APPR.	TS	205 SKIDTUBE ASSEMBLY	NTS
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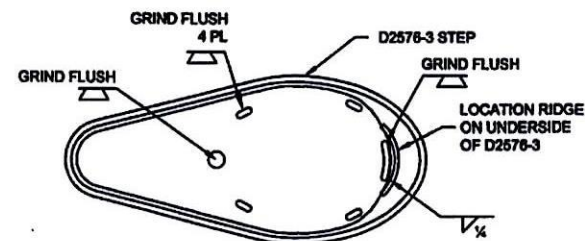
DETAIL A
SCALE 5X



SECTION B-B
SCALE 5X

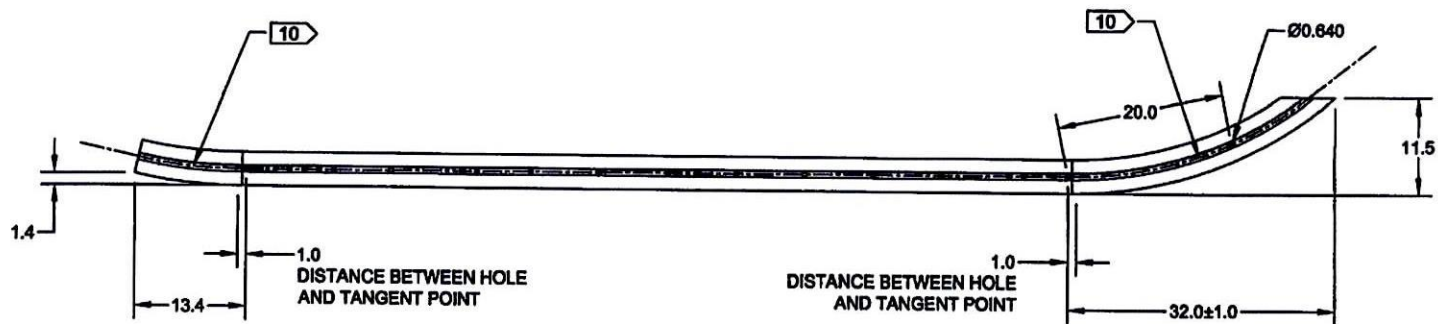


DETAIL C
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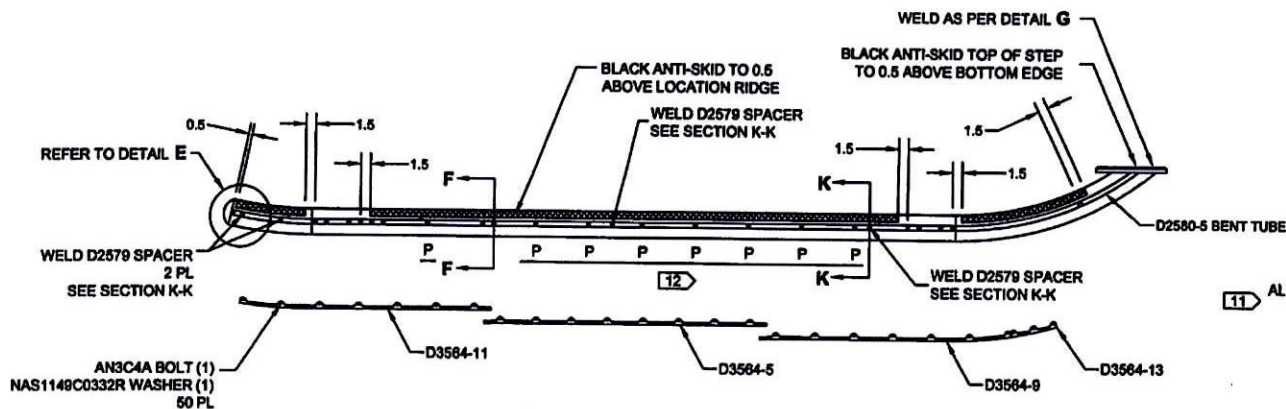
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D2580-1 BENT TUBE
(MAKE FROM D2580-101 TUBE)

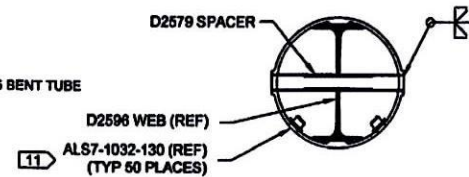
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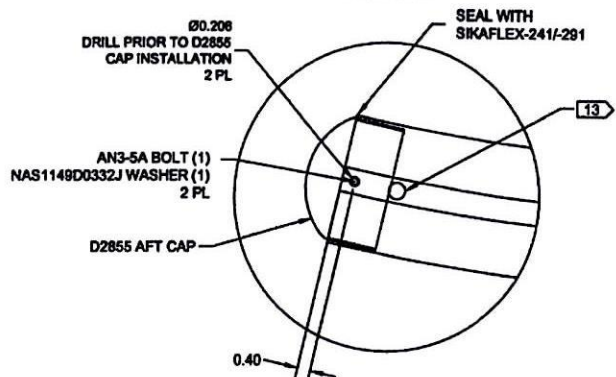
D2580-045 ASSEMBLY DETAIL

**SECTION K-K
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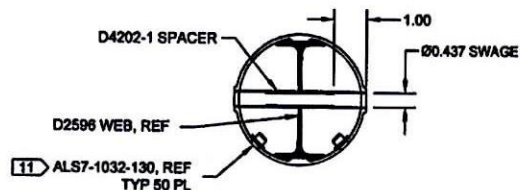


- AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.508 HOLES ONLY:
1. CHAMFER HOLE 0.050 X 45°
 2. INSERT D2579 SPACER (4 PLACES)
 3. WELD INTO PLACE AND GRIND FLUSH
 4. DO NOT CBORE

**DETAIL E
SCALE 5X**

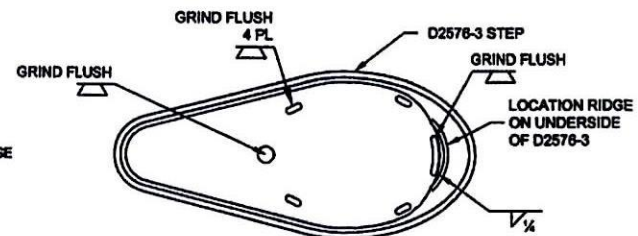


**SECTION F-F
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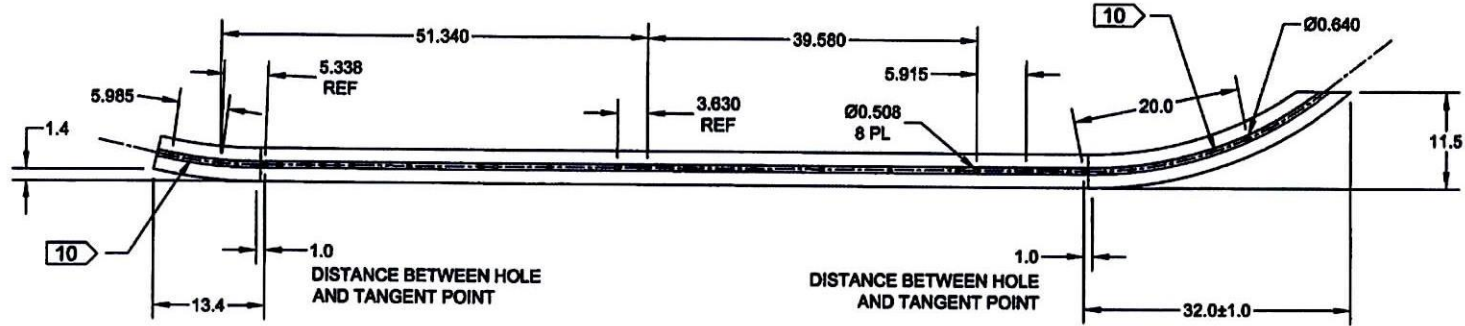
- AFTER DRILLING AND BENDING ASSEMBLY
PERFORM THE FOLLOWING FOR Ø0.508 HOLES ONLY:
1. INSERT D4202-1 SPACER (20 PLACES)
 2. SWAGE TO Ø0.437 X 1.00 DEEP PER QSI 002
 3. TRIM/GRIND FLUSH PER QSI 002

**DETAIL G
SCALE 5X**



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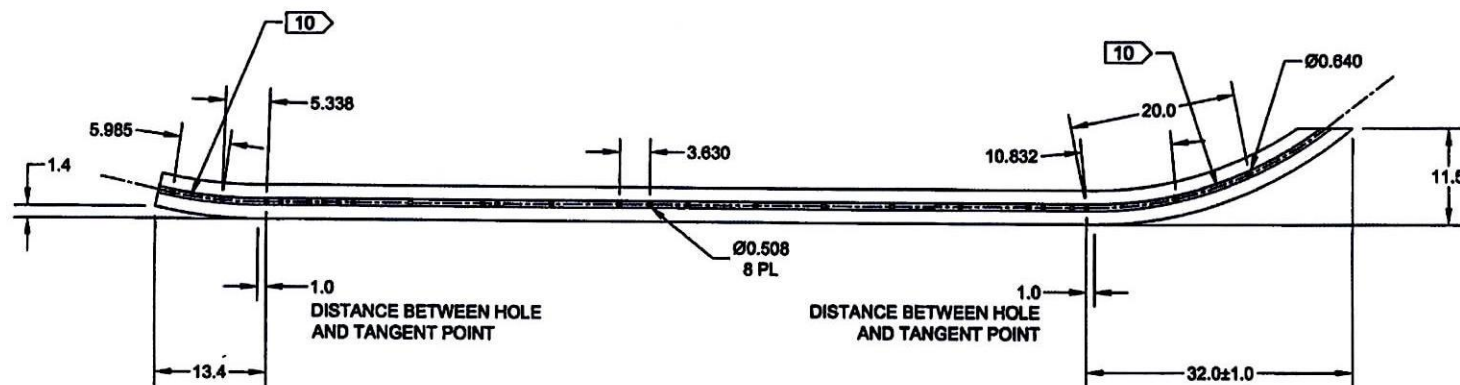
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D2580-5 BENT TUBE
(MAKE FROM D2580-101 TUBE)

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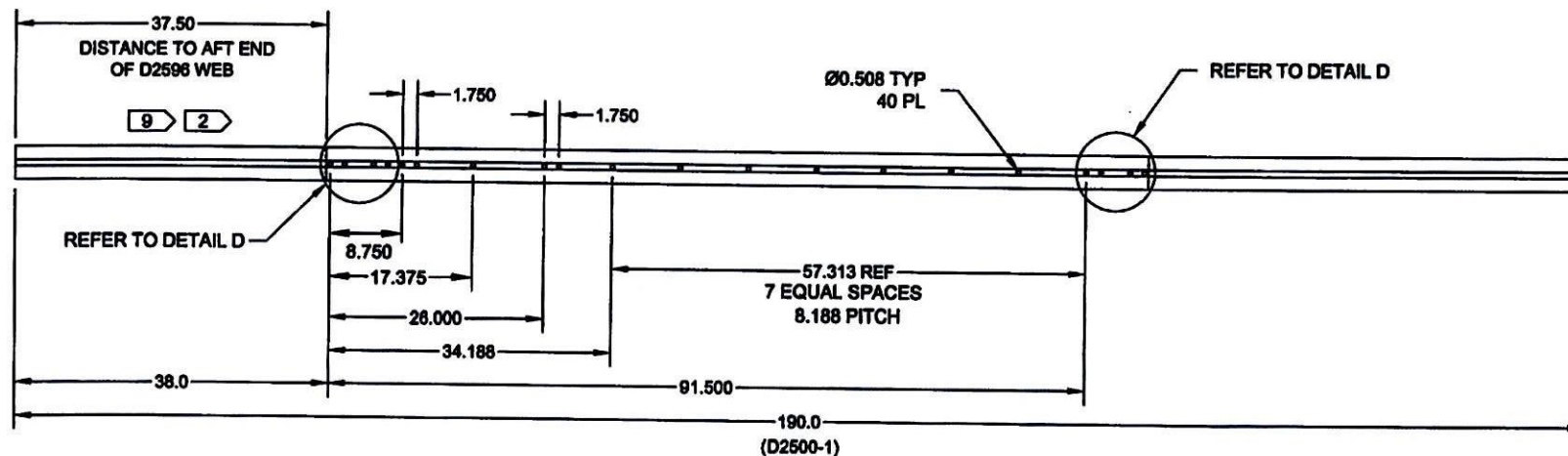
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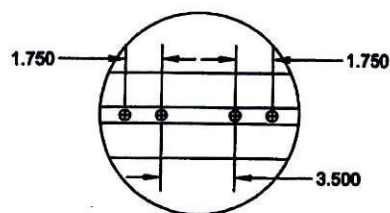
D2580-7 BENT TUBE
(MAKE FROM D2580-101 TUBE)

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D2580-101 TUBE



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